

FILOV, A.I., red.; SUVALOV, I.S., red.; ANTONOVA, N.M., tekhn.red.

[Cultivation of melons in Central Asia; a collection of papers
at the Central Asian Congress on the Cultivation of Melons]
Bakhchevodstvo Srednei Azii; sbornik materialov Sredneaziatskogo
soveshchaniia po bakhchevodstvu. Pod red. A.I.Filova. Moskva,
Izd-vo M-va sel'. khoz.SSSR, 1959. 213 p. (MIRA 12:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
V.I.Lenina. 2. Predsedatel' komissii po bakhchevodstvu Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina;
zaveduyushchiy laboratoriyey bakhchevykh kul'tur Vsesoyuznogo
instituta rasteniyevodstva (for Filov).
(Soviet Central Asia--Melons)

YAREMENKO, M.K.; SUVALOV, I.S., red.; ANTONOVA, N.M., tekhn. red.

[Surface ensilage under plastic film cover sealed by means
of vacuum] Opyt nazemnogo silosovaniia kormov pod plast-
massovoi plenkei s uplotneniem posredstvom vakuuma. Moskva,
Izd-vo M-va sel'.khoz. SSSR, 1960. 41 p. (MIRA 14:7)
(Ensilage)

DMITRIYEVA, A.I., red.; YEMEL'YANOV, F.V., red.; KARTASHEVA, N.M., red.;
SOKOLOV, G.N., red.; SUVALOV, I.S., red.; ANTONOVA, N.M.,
tekhn.red.

[Achievements of the Lenin All-Union Academy of Agricultural
Sciences and tasks of research institutes in carrying out reso-
lutions of the December Plenum (1959) of the Central Committee
of the CPSU; materials of the general assembly of the academicians
and corresponding members of the Academy, March 22-25, 1960]
Itogi raboty VASKHNIL i zadachi nauchnykh uchrezhdenii po reali-
zatsii reshenii dekabr'skogo (1959 g.) Plenuma TsK KPSS; materialy
obshchego sobraniia akademikov i chlenov-korrespondentov VASKHNIL
22-25 marta 1960 g. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960.
190 p. (MIRA 14:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.
Lenina.

(Agricultural research)

ROMANOV, M.A., kand. biol. nauk, red.; SUVALOV, I.S., red.; ANTONOVA,
N.M., tekhn. red.

[Use of polymeric films in agriculture] Primenenie polimer-
nykh plenok v sel'skom khoziaistve. Pod obshchei red. M.A.Ro-
manova. Moskva, Sel'khozgiz, 1961. 130 p. (MIRA 15:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V.I.Lenina.

(Agriculture)

(Polymers)

GORLENKO, M.V., prof., red.; ZHUKOVSKIY, P.M., akademik, red.; DUNIN,
M.S., prof., red.; TVERSKOY, D.L., doktor biolog. nauk, red.
SUVALOV, I.S., red.; ANTONOVA, N.M., tekhn. red.

[Immunity of plants to diseases and pests] Immunitet rastenii
k bolezniam i vrediteliam. Pod obshchai red. M.V.Gorlenko.
Moskva, Sel'khozgiz. 1961. 245 p. (MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.
Lenina.

(Plants—Diseases and pests)

KARPOV, G.K., prof., doktor sel'skokhoz.nauk, red.; SUVALOV, I.S.,
red.; ANTONOVA, N.M., khud.-tekhn.red.

[Breeding fruits and berries for winter hardiness and constant
yields] Seleksiia plodovykh i iagodnykh kul'tur na ezhegodnuu
urozhainost' i zimostoikost'. Pod obsheiei red. G.K.Karpova.
Moskva, Izd-vo M-va sel'.khoz.SSSR, 1961. 339 p.

(MIRA 14:4)

1. Michurinsk, Russia. TSentral'naya geneticheskaya laboratoriya
imeni I.V.Michurina. 2. TSentral'naya geneticheskaya laborato-
riya imeni I.V.Michurina (for Karpov).
(Fruit culture)

SUVALOV, YU.N.

SUBJECT USSR / PHYSICS

CARD 1 / 2

PA - 1469

AUTHOR SUVALOV, YU.N.

TITLE The New Distribution of Electron Density in a Crystal of Granular Cadmium in Connection with the Modification of its Electric Conductivity.

PERIODICAL Dokl. Akad. Nauk, 109, fasc. 4, 753-756 (1956)
 Issued: 10 / 1956 reviewed: 11 / 1956

Hexagonal crystals with well-defined surfaces of granular cadmium with different conductivity and photo-sensitivity were investigated. The rotation radiograms were recorded in accordance with VAJSENBURG'S method by means of molybdenum radiation and the ratios of the intensities of the neighboring radiograms on crystals with different conductivity were compared with one another. On this occasion it was found that with an increase of the conductivity of the crystal some intensity ratios of the reflexes grow systematically while others decrease and others still are only slightly modified. These ratios are shown together in a table for various samples of high-resistance and low-resistance crystals. From the measured intensities of the reflexes the projections of the electron density in CdS crystal along the hexagonal axis are determined for a high- and a low-resistance crystal. On the occasion of the transition from a high-resistance to a low-resistance crystal electron density increases along the lines connecting the projections of the adjoining atoms and also along the direction towards the most distant atom, but it decreases in other directions. Thus, the so-called "electron bridges" are formed. The increase of conductivity can therefore be ex-

Dokl.Akad.Nauk, 109, fasc.4, 753-756 (1956) CARD 2 / 2 PA - 1469

plained by the forming of "electron bridges" connecting inversely charged atoms. However, this is not the only possible interpretation. Others are micro-destruction of the lattice itself (microfissions), irregularities of the position of atomic layers, a combination of the hexagonal α -modification of the CdS and cubic modification, etc.

In order to clear up these ambiguities the debyeograms of the Cd-crystals with different conductivities, which were ground to powder, were recorded. The photo-metrization of the debyeograms on the whole confirmed the rules found to be governing the modifications of the intensities of reflexes.

A comparison of all results obtained justifies the statement that the increase of the conductivity of CdS-crystal due to this or the other cause is connected with the intensity of reflexes, i.e. with a new distribution of electron density in the CdS lattice. In the case of an increase of conductivity electron bridges are formed in this lattice which are directed towards the chemical binding of the crystal.

INSTITUTION: Leningrad State University "A.A.ZDANOV"

TER-AZAR'YEV, I., kand. tekhn. nauk; OGANYAN, T., inzh.;
SUVALYAN, P., inzh.

Cable sawing of tufts. Prom. Arm. 6 no. 11:37-40 N '63.
(MIRA 17:1)

SUVANBERDIYEV, Turgunbek

[In the land of the Blue Nile; travel notes] V strane Golubogo
Nila; putevye zametki. Frunze, Kirgizskoe gos. izd-vo, 1961.
51 p. (MIRA 15:10)
(Ethiopia—Description and travel)

SUVANDZHIEV, M.

Transistor receiver. Radio i televiziia 13 no.8:236 '64.

I 11589-66 EWT(m)/EWP(t)/EWP(b)/EWA(h) JD	
ACC NR: AP0000373	SOURCE CODE: UR/0286/65/COO/021/0091/0091
AUTHORS: Shaposhnikov, A. P.; Zolotov, I. N.; Suvareva, V. S.; Borukhin, B. Ya.; Makarova, L. N.; Buchenkov, F. I.; Markov, F. F.	
ORG: none	31 E
TITLE: Method for correcting the chemical composition of fused <u>metallurgical slags</u> . Class 80, No. 176197 16	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 91	
TOPIC TAGS: slag, synthetic slag, metallurgical process, metallurgy	
ABSTRACT: This Author Certificate presents a method for adjusting the chemical composition of fused metallurgical slags by introducing additives. To conserve time and energy and to obtain a homogeneous melt from the mixture of fused slag and additives, igneous rocks and industrial waste materials are used as additives. The latter are selected so that their fusion temperature is below the temperature of the fused slag. Gabbro, diabase, basalt, andesite, power plant ashes, and similar materials are used as additives. They are crushed and preheated up to their respective softening points prior to their introduction to the fused slag. The amount of additives is 50% by wt. of the total mass of the mixture.	
SUB CODE: 11/	SUBM DATE: 19Jun62
Card 1/1 HW	UDC: 669.054.82:669.046.58

ABGARYAN, E.T., inzh.; SUVARYAN, G.S., inzh.

USO magnetic power amplifiers. Elektrotehnika 35 no.6:4-7
Je '64. (MIRA 17:8)

SUVE, A.; ZERREEN O.

Poisoning cases among swine. p/ 175.

SOTSIALISTLIK POLLUMAJANDUS. Tallinn, Hungary, Vol. 13, no. 4, Apr. 1958.

Monthly List of East European Accessions (EEAT), LC, No. 12, July, 1959.
Uncl.

FOLDES, I.; MODIS, L.; SUVEGES, I.

Metachromasia in cartilaginous tissues. Acta morph. Acad. sci.
Hung. 13 no.1:43-50 '64

1. Institute of Anatomy, Histology and Embryology (Director:
Prof. I. Krompecher), University Medical School, Debrecen.

SUVEGES, M.

The "clock-paradox" and the quantum mechanical theory of biological ageing. Acta phys Hung 17 no.3:395-397 '64.

1. Research Group for Theoretical Physics, Hungarian Academy of Sciences, Budapest.

HUNGARY

SUVEGES, Tibor, Dr, Institute of Veterinary Medicine (Allategeszsegugyi Intezet), (Director: ALDASY, Pal, Dr, candidate of veterinary medicine), Miskolc.

TOTH, Imre, Dr.

"On the Occurrence and Epizootiology in Hungary of Abortion by Sheep Caused by Salmonella Abortus Ovis."

Budapest, Magyar Allatorvosok Lapja, Vol 17, No 11, Nov 62, pp 401-405.

Abstract: [Authors' English summary abridged] Salmonella abortus ovis was found to be the cause of about half of the abortions observed in 110 herds. The strain was identified immunologically and biochemically. In the infected herds, concentrated in Northern districts on state or collective farms, usually 10-20 %, in some cases, 40-60 % of the ewes aborted. One abortion resulted in apparent immunity. Contrary to other data rams did not spread the infection. Definite diagnosis can be made only by isolation of the organism from the aborted fetus. The authors conclude that the organism should be regarded as a facultative pathogen. Suitable immunization or therapy is unavailable, prevention is sought.

1/1 [No references.]

L 8893-65 EWT(d)/EWT(m)/EWP(l)/EWA(h)/EWP(r)/EWA(d) Pf-4 ASD(f) EM

ACCESSION NR: AP4045464

S/0288/64/000/002/0093/0098

AUTHOR: Suvernev, V. G.

TITLE: Small natural vibrations of sandwich shells of revolution

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 2, 1964, 93-98

TOPIC TAGS: natural vibration, natural frequency, shell vibration, natural shell vibration, natural shell frequency

ABSTRACT: The vibrational behavior of elastic thin shallow unsymmetrical sandwich shells of revolution is discussed using as a criterion the equations for small vibrations of such shells derived by E. I. Grigolyuk and P. P. Chulkov (Doklady AN SSSR, v. 150, no. 5, 1963). The core is assumed rigid and transversely isotropic; the faces, isotropic and of different materials. The shell is simply supported; the inertia effect is accounted for only in the lateral direction. The natural vibrations of sandwich shells are analyzed in the following particular cases: 1) a circular cylindrical shell simply supported at ends and subjected to a uniform axial tension or compression com-

Card 1/2

L 8893-65

ACCESSION NR: AP4045464

bined with a uniform external pressure; and 2) a spherical shell (semisphere) under normal pressure. The formulas for determining the natural frequencies as a function of geometric and rigidity parameters are deduced, and the relationships among them are shown in diagrams. Orig. art. has: 5 figures and 12 formulas.

ASSOCIATION: none

SUBMITTED: 20Jan64

ATD PRESS 3109

ENCL: 00

FILE CODE: AS

REV 507 002

OTHER: 001

Card 2/2

ACC NR: AR6032362

SOURCE CODE: UR/0264/66/000/007/A009/A009

AUTHOR: Suvernev, V. G.

TITLE: Oscillations of the three-layered circular conical shells

SOURCE: Ref. zh. Vozdushnyy transport, Abs. 7A60

REF SOURCE: Sb. Raschety elementov aviats. konstruktsii, Vyp. 4. M.,
Mashinostroyeniye, 1985, 168-178

TOPIC TAGS: oscillation, elastic oscillation, conic shell

ABSTRACT: An investigation is made of the internal oscillations of flat, elastic, circular, closed, nonsymmetric, frustum conical shells with isotropic supporting layers which are filled with different materials and rigid fillers. An investigation was also made of the effect of the axial force and the uniform transverse presence on the frequency of the natural oscillations of a shell with freely supported edges. The effect of the relative thickness and length of the shell and the shift rigidity of a filler and the conical angle of the minimum frequencies of the natural oscillations of the conical shell are studied. Orig. art. has: 9 figures and a bibliography of 6 reference items. [Translation of abstract]

SUB CODE: 14/

Card 1/1

UDC: 539.4

L 37124-66 EWP(k)/EWT(d)/EWT(m)/EWP(w)/EWP(v) IJP(e) WW/EM/EM/GD

ACC NR: AT6011757

SOURCE CODE: UR/0000/65/000/000/0197/0218

AUTHOR: Suvernev, V. G.

ORG: None

TITLE: Natural oscillations of round cylindrical sandwich shells with freely suspended and clamped edges

SOURCE: Raschety elementov aviatsionnykh konstruktsiy, vyp. 3: Trekhsloynnye panell i obolochki (Calculation of aircraft construction elements, no. 3: Sandwich panels and shells). Moscow, Izd-vo Mashinostroyeniye, 1965, 197-218

TOPIC TAGS: cylindric shell structure, shell vibration, sandwich structure

ABSTRACT: The article deals with the problem of analyzing the oscillations of cylindrical sandwich shells. A study is made of the natural oscillations of curved elastic sandwich shells with a structure which is non-symmetrical throughout the thickness of the shell. The filler is assumed to be rigid and transverse-isotropic, the supporting (external) layers are assumed to be isotropic, and their material dissimilar. A comparison is made of the results of the analysis of natural oscillations for a circular cylindrical shell with clamped and freely supported edges. Also considered are the characteristic frequencies of a shell in

Card 1/2

UDC 629.13.011.1:534.014.1:62-43

L 37124-66

ACC NR: AT6011757

the absence of external forces and in the presence of axial forces, transverse and hydrostatic pressure. A series of graphs are given illustrating the effect of these factors on the minimum frequency of natural oscillations of sample shells. Orig. art. has: 17 figures and 20 formulas.

SUB CODE: 13 / SUBM DATE: 25Oct65 / ORIG REF: 009 / OTH REF: 003

Card 2/2 af

L 37123-66 EWP(k)/EWT(i) EWT(m)/EWP(w)/EWP(v) JIP(c) WW/EM/GD/RM
ACC NR: AT6011758 SOURCE CODE: UR/0000/65/000/000/0219/0225

AUTHOR: Suvernev, V. G.

ORG: None

TITLE: Natural oscillations of spherical sandwich shells with freely suspended and clamped edges

SOURCE: Raschety elementov aviatsionnykh konstruktsiy, vyp. 3: Trekhsloynnye paneli i obolochki (Calculation of aircraft construction elements, no. 3: Sandwich panels and shells). Moscow, Izd-vo Mashinostroyeniye, 1965, 219-225

TOPIC TAGS: spheric shell structure, orthotropic shell, shell vibration

ABSTRACT: A brief survey of Soviet and foreign work in the field of the oscillation analysis of spherical shells is given. It is noted that all available theoretical and experimental studies have thus far been carried out for single-layer spherical curved shells of orthotropic and isotropic material. In the present paper an investigation is made into the natural oscillations of curved elastic sandwich spherical shells having a structural configuration which is non-symmetrical throughout the thickness of the external layers. The filler is considered to be rigid and transverse-isotropic, the supporting layers to be isotropic, and manufactured of different material. A comparison is made of the results of an analysis of

Card 1/2

UDC 629.13.011.1:534.014.1:62-43

L 37123-66

ACC NR: AT6011758

the least natural frequencies for a spherical shell with clamped and with freely supported edges. The natural oscillations of a shell are considered both in the absence of any external forces and in the presence of a transverse uniform (hydrostatic) pressure. Orig. art. has: 3 figures and 19 formulas.

SUB CODE: 13 / SUBM DATE: 25Oct65 / ORIG REF: 006 / OTH REF: 004

Card 2/2 af

on methods of measuring the potential of charged electro-
photographic layers; the vibration pick-up most-used
was shown in B.I. Tikhonov's report to be not always
accurate. S.G. Greshin stated that the bad influence
of the oscillating electrode can be eliminated if the
electrode probe above its surface is fixed and the pick-
up is connected to it by a shielded cable. In the re-
port on I.E. Remizov's report it was stated that
the research of Academics A.N. Korshak and A.V. K.
Putyko should be considered as the basis of all work
on electrophotography. Putyko's research on the
electrophotographic properties of ZnO as they were
the first of the internal photoeffect in ZnO. K. Gol-
vidin then gave a report on the depositing of charges
by a corona discharge. A.I. Kamalaka and A.P.
Yanulis reviewed some of the results of the use of
electrographic methods in radiography. L.I. Myunko
speaking for I.I. Zhilevich I.Z. Plavin, Yu.K.
Vishnina and Yu.A. Zibuta reported on relaxation pro-
cesses in semiconducting layers, using a vibration electro-
meter. Yu.K. Vishnina gave a report on research on some
physical properties of the polycrystalline layers of
selenious cadmium. K.P. Mikulavichyus spoke on some
of the photoelectric properties of Sb₂S₃ and Sb₂Se₃; the
absorption maximum of the latter is about 900 mμ.
S.M. Kerman reported on methods of obtaining selenium
light-sensitive layers, including sublimation and ter-
mal treatment; it was also found that the sensitivity
of the layers increased after storage for 1.5 to 2 months
at room temperature. P.M. Polygalin (speaking also
for S.G. Greshin) spoke on research into the elec-
trical properties of electrophotographic layers of
amorphous selenium and powdered zinc oxide. N.K.
Shikhorov (speaking also for A.S. Tshuytis) discussed
the production of selenium layers and some of their
properties. Finally the following reports on electro-
photography were delivered: 1) A.S. Tshuytis, "Electro-
photography and the properties of the Krasnodar alloys
Vibrozina, Electrodeposition of the Krasnodar alloys
with variation of magnetic characteristics." 2) M.T. Arutyunov,
"Graphic Method." 3) V.G. Patrakov, "Perigraphic Recording
of Facsimile Images." 4) I.I. Zhilevich, I.I. Gikis, B.
Ye. Buchak, I.I. Naynise, A.K. Kizhia, "Mock Experiments
in Non-Pressure Perigraphic Printing." There was
also an exhibition showing the work of the Electro-
graphic Institute. The most important conclusion of
the conference was that a solid approach had been made
to the possibility of wide technical use of the methods
of electrophotography. It was considered that although work
in this field actually started only in 1955-56 it has covered as much ground
as the USA in 10 years. While admitting that it was
easier to reproduce results already achieved than to be
the first to arrive at them, the conference observed
that the Americans took good care not to make important
information appeared in the literature available.

Card 10/10

SUVEYZDIS, P.I. [Suvelzdis, P.]

Hydration of Upper Permian anhydrites and the phenomena of false
tectonites in the Triassic sediments of the Baltic region. Trudy
AN Lit. SSR Ser. B no.3:27-39 '63. (MIRA 18:3)

1. Institut geologii i geografii AN Litovskoy SSR.

SUVEYZDIS, P.I. [Suveizdis, R.]

Uplands of the Raseiniai region according to borehole data.
Liet ak darbai B no.4:179-188 '61.

1. Institut geologii i geografii AN Litovskoy SSR.

SVUID, N. F.

AUTHOR: Gikis, A. P., Candidate of Technical Sciences, Docent
TITLE: Inter-University Scientific Conference on Electric Measuring Instruments and Technical Means of Automation (Veshivusovskaya nauchnaya konferentsiya po elektromeritel'nykh priboram i tekhnicheskim sredstvam avtomatiki)
PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika, 1958, Nr 9, pp 130-135 (USSR)
ABSTRACT: The conference was held at the Leningradskiy elektrotekhnicheskii institut imeni V. I. Ul'yanova (Lenin) (Leningrad Electro-technical Institute imeni V. I. Ul'yanov (Lenin)) on November 11-15, 1958. The representatives of eleven higher teaching establishments and three research institutes participated and a large number of specialists of various industrial undertakings were present.
 Assistant M. M. Petisov (Leningrad Polytechnical Institute) presented a paper on the "Basic problems of the theory of automatic electric metering instruments with reverse transformation for measuring non-electrical magnitudes. The method is based fundamentally in compensating the measured non-electrical magnitude with a similar magnitude produced by means of a transducer.
 Professor B. M. Kharchenko (Moscow Lenin Order Power Institute) presented the paper "Determination of the dynamic errors of a magneto-electric oscillograph by means of analogues".
 N. F. Suvid (Kiyev Polytechnical Institute) presented the paper "Measurements using magnetic bridges".
 In addition to this, three further papers were read on magnetic measurements.

SUVID, N.F., assistant

Magnetomechanical logometers equipped with magnetic bridges. Izv.vys.
ucheb.zav.; prib. no.1:22-27 '59. (MIRA 12:11)

1. Kiyevskiy ordena Lenina politekhnicheskoy institut.
(Magnetic instruments)

S. V. I. D., N. F.

6(2), 9(6)
AUTHOR:

Anisimov, V. I., Engineer

SOV/19-59-3-1/15

TITLE:

The Inter-University Scientific Conference
on Electrical Measuring Instruments and on the Technical
Means of Automation (Mezhvuzovskaya nauchnaya
konferentsiya po elektromeritel'nyy priboram i
tekhnicheskim sredstvam avtomatiki)

PERIODICAL:

Priborostroyeniye, 1959, Nr. 3, pp 30-31 (USSR)

ABSTRACT:

This Conference was held at the Leningradskiy elektrotekhnicheskiy
institut im. V. I. Ul'yanova (Leningrad Institute
of Electrical Engineering) in Leningrad from 15 to 17
November 1958. It was attended by more than 1500 representatives
of universities, scientific research institutes, the OMB,
the SSB (Special Design Office), of industries and other
organizations. More than 30 lectures were delivered in
the meetings of this Conference. In opening the conference
M. P. Boroditskiy underlined the outstanding importance of automation
and of measuring technique for the development of national
economy. M. M. Shumilovskiy in his lecture reported on
"The Trends in the Development of Methods of Radioactive
Control of Production Rate" and outlined the extensive

Card 1/5

possibilities of using radioactive methods in such control.
Ye. G. Shraaker and A. S. Shchegolev reported on the method
of measuring heavy direct currents with the help of the
nuclear magnetic resonance. M. A. Rosenblat investigated
problems of the application of magnetic amplifiers in
automation and in measuring technique. A. V. Fateyev
reported on the present-day state on the prospects of
automatic control technique. Ya. Z. Tsypkin investigated
some peculiar features of and the prospects offered by
automatic pulse systems. The lecture by M. C. Boldyrev
dealt with problems of stability of discrete automatic
systems. V. B. Gushakov discussed the main trends in the
development of mathematical analog computers and of
computers designed for industrial use. The report by
V. P. Kuznetsov dealt with an electronic analog correlator
for the calculations of the correlation functions. B. I. Egeneson
investigation of winds in the ionosphere. B. I. Egeneson
reported on the most important methods which ensure
both an active and passive freedom from disturbances in

Card 2/5

discrete selective systems. Ye. V. Novosel'tsev discussed
problems of averaging, differentiation, and balancing
of time-dependent functions which can be represented by
electric signals. V. P. Sturidin investigated new computing
devices with polarized relays. A. V. Frenke and Ye. M. K.
Pushin reported on instrument transformers. G. M. Kuznetsov
discussed the problems of the design of automatic
instruments with automatic recording. V. B. Gushakov and
M. P. Boroditskiy reported on the design of automatic
systems for the control of production specifications. M. M.
Shumilovskiy discussed the problems of the theory of
automatic measuring instruments with an inverse conversion
for the measurement of non-electric quantities. Ye. A.
Tsybakov dealt with problems of the construction of
automatic d. o. potentiometers with high accuracy. D. I.
Malov discussed a high-precision automatic d. o. bridge
for digital computations. The participants in the Congress
listed below discussed the following subjects (which,
however, are not given by the exact wording of the title):
V. A. Kvantsov The planning of measuring elements for

Card 3/5

SUVID, N.F.

Measuring instruments with magnetic bridges. Izv. tekhn. 20 no.:33-36
Ja '59. (MIRA 11:12)

(Magnetic measurements)

ORNATSKIY, P.P.; SKRIPNIK, Yu.A.; SUVID, N.F.

Methods and units for accurate indication of a 90° phase shift.
Izm.tekh. no.8:24-29 Ag '60. (MIEA 13:9)
(Electric measurements)

ORNATSKIY, P.P.; SUVID, N.F.; TUZ, Yu.M.

Electromagnetic devices for measuring high frequencies.

Izm.tekh. no.11:45-47 N '61.

(Frequency measurements)

(MIRA 14:11)

ZHOGOT, V.D.; ORNATSKIY, P.P.; SUVID, N.F.

Low-cosine wattmeters for the sonic frequency range. Nov. nauch.-
issl. rab. po metr. VNIIM no.6:12-13 '64. (MIRA 18:3)

SUVID, Yu. G.

"The Effect of Injuries to Various Parts of the Nervous System on the Functional Condition of the Skin and the Composition of Peripheral Blood." Cand Med Sci, Khar'kov State Medical Inst, Min of Health Ukarinian SSR, Khar'kov, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

COUNTRY	: USSR	T
CATEGORY	: Human and Animal Physiology, Blood	
ABS. JOUR.	: RZhBiol., No. 5 1959, No. 21925	
AUTHOR	: Suvid, Yu.G.	
INST.	: The Ukrainian Central Scientific Institute of Ex-*	
TITLE	: The Composition of the Peripheral Blood in the Face of Nervous-System Damage.	
ORIG. PUB.	: Sb. nauchn. rabot. Ukr. tsentr. n.-i. in-t eks-perim. trudosposobnosti i organiz. truda invalidov, 1957, No. 2, 21--100.	
ABSTRACT	Negligible changes were seen in the erythrocyte counts of 49 patients with damage to the cerebral cortex (41 with Jacksonian epilepsy). Leukocytosis was noted in only 18 of the patients. The percentage of segmented neutrophils was 40--55% among 4 of the patients at the time they entered the clinic; among 9 there was a diminished number of lymphocytes (10--19%), and an increase in the monocyte level was seen among 43. Of 70 patients with lesions of the subcortical-capsular region (Parkinsonism, etc.), the majority showed	
Card:	1/3	

*perimental Work Capacity

COUNTRY	: USSR
CATEGORY	:
ABS. JOUR.	: RZhBiol., No. 5 1959, No. 21925
AUTHOR	:
INST.	:
TITLE	:
ORIG. PUB.	:
ABSTRACT	: a peripheral-blood composition which was normal, monocytosis was seen in a portion of these patients. Forty-seven patients with spinal-cord lesions were also followed, 25 of whom suffered from a form of myelitis and 22 of whom had syringomyelia. Monocyte levels above 8% were noted among 40% of the patients with myelitis and among 72.7% of those with syringomyelia. Of 57 patients with lesions of the peripheral nervous system, monocytosis was noted among 66% of the patients with polyneuritides, among 75% of the patients with
Card:	2/3

L 10077-58 ENT: 10 20	
ACC NR: AT6017050 (N)	SOURCE CODE: UR/2566/65/074/000/0047/0054
AUTHOR: Volkov, V. G.; Suvilov, E. V. 47 B+1	
ORG: none	
TITLE: EBTZ-62/1000 electrobathythermograph	
SOURCE: AN SSSR. Institut okeanologii. Trudy, v. 74, 1965. Elektronnyye pribory dlya okeanologicheskikh issledovaniy (Electronic instruments for oceanological research), 47-54	
TOPIC TAGS: oceanographic instrument, temperature distribution, pulse generator	
ABSTRACT: A bathythermograph designed for the measurement of the temperature distribution of the sea in the 1000-2000 m depth range is described. The submerged part of the instrument consists of a pulse generator, temperature compensator, range finder, and electromechanical commutator. Another part of the instrument on board a vessel consists of a decoder and a recorder. A schematic diagram of each element is given and their designs are discussed in detail. This temperature probe also has a self-controlled device which determines the performance of the generator at any time. In 1963 the design of the pulse generator was revised and improved and temperature stability was achieved. The revised generator can change the frequency of the oscillator from 210 to 480 cps while maintaining constant amplitude. An error of 0.1°C was de-	
Card 1/2	

SUVIN, Miroslav, Doc. dr.

~~Immediate prosthesis.~~

Immediate prosthesis. Zobozdrav.vest., Ljubljana 10 no.1-2:50-55
1955.

1. Sef proteticnega oddelka Odontoloskega zavoda Medicinske fakul-
tate v Zagrebu.

(DENTAL PROSTHESIS,
immediate, technic)

SUVIN, Miroslav, Dr.

Stomatitis prothetica. Lijec.vjes. 77 no.1-2:75-81 Jan-Feb. '55.
(STOMATITIS, etiol. & pathogen.
dental prosthesis(Ser))
(DENTAL PROSTHESIS, inj. eff.
stomatitis(Ser))

SUVORCHENKOV, L.; YEGOROV, N.

Readers' letters. Avt.transp. 43 no.3:47 Mr '65.

(MIRA 18:5)

SUVORIKOVA, A.I.

Effect of different doses of aloe on the working capacity of white mice. Nauch. trudy Riaz. med. inst. 15:111-133 '62.

(MIRA 17:5)

1. Kafedra farmakologii (zav. kafedroy - dotsent A.A.Nikul'in)
Ryazanskogo meditsinskogo instituta imeni Pavlova.

SUVORIN, Aleksey Alekseyevich (1862-)

[Treating illnesses with diet] Ozdorovlenie pishcheiu. Izd.3.
Buenos Aires, Izd-vo "Seiatel'," 1960. 287 p. (MIRA 14:7)
(DIET IN DISEASE)

NOVIKOV, I.T.; NEPOROZHNIY, P.S.; GANICHEV, I.A.; LAVRENNENKO, K.D.;
FINOGENOV, Ya.I.; ALEKSANDROV, D.Ya.; SERDYUKOV, N.P.;
KUDRYAVTSEV, L.N.; PETROV, A.N.; BANNIK, V.P.; VOLKOV, I.M.;
MEL'NIKOV, B.V.; STAROSTIN, I.A.; BUBNOVSKIY, G.A.; SUVORIN,
E.Ya.; GRITSAY, B.I.; SKUPKOV, A.A.; BAMSHTEYN, Ye.B.; TURCHIN,
N.Ya.

IUrii Nikolaevich Pongil'skii; obituary. Energ. stroi.
no.27:99 '62. (MIRA 15:9)
(Pongil'skii, IUrii Nikolaevich, 1925-1962)

SUVORIN, M.K., fel'dsher. (selo Granov Vinnitskoy oblasti)

My participation in community work in the village. Fel'd. i akush.
no.1:47 Ja '56 (MIRA 9:4)

(MEDICAL SERVICE PERSONNEL)

SUVORIN, M. ^K fel'dsher

Studies have helped. Sov. profsoiuzy 7 no.14:46 J1 '59.
(MIRA 12:10)

1. Predsedatel' mestkoma Granovskoy bol'nitsy, g. Gaysin, Vinnits-
koy oblasti.
(Gaysin--Trade unions)

SUVORIN, P.P.

Experience in modernizing equipment. Avt. 1 trakt. prom. no.12:42-43
D '57. (MIRA 11:1)

1. Stalingradskiy traktorny zavod.
(Stalingrad--Tractor industry)

SUVORIN, V. S., Cand Med Sci -- (diss) "Problem of the relation of mastopathy to cancer of the mammary gland." Khabarovsk, 1960. 17 pp; (Khabarovsk State Medical Inst); 250 copies; price not given; (KL, 28-60, 166)

SUVORIN, V.T.

Some problems in developing suburban agriculture. Gor.khoz.Mosk.
35 no.7:10-12 J1 '61. (MIRA 14:7)

1. Nachal'nik otдела sel'skogo khozyaystva Gorodskoy planovoy
komissii, Moskva.
(Moscow--Gardening)

KROKHA, V.A.; SUVORINA, L.N.; BAKHOVKIN, A.M.

Technical and economic analysis of gear wheel manufacture by
knurling. Kuz.-shtam. proizv. 4 no.5:39-45 My '62. (MIRA 16:5)
(Gear cutting)

KROKHA, V.A., inzh.; SUVORINA, L.N., inzh.; BAKHOVKIN, A.M., inzh.

Analyzing the production of gear wheels by the knurling method.
[Nauch. trudy] ENIKMSha 7:55-69 '63. (MIRA 16:7)

(Gearing) (Forging)

KROKHA, V.A., inzh.; SUVORINA, L.N., inzh.; BAKHOVKIN, A.M., inzh.

Technical and economic indices of manufacturing gear wheels by
press forging. [Nauch. trudy] ENIKMASha 7:90-110 '63.

(MIRA 16:7)

(Gearing) (Forging—Costs)

MAKHONYA, I.T.; SUVORINA, L.N., inzh., red.

[Reference tables for metal-cutting tool fitters] Spravochnye tablitsy dlia instrumentalshchika. Izd.2., perer. i dop. Moskva, Mashinostroenie, 1965. 187 p.
(MIRA 18:3)

FEDYUSHIN, N.D.; DIKUSHIN, V.I., akademik, retsenzent; VERESHCHAGIN,
L.F., retsenzent; SUVORINA, L.N., inzh., red.

[Selecting optimal variants of thick-walled structures;
handbook] Vybór optimal'nykh variantov tolstostennykh kon-
struktsii; spravochnoe posobie. Moskva, Mashinostroenie,
1965. 81 p. (MIRA 18:6)

1. Chlen-korrespondent AN SSSR (for Vereshchagin).

SUVORIN H, T. M.

NAZAROVSKIY, Boris Mikandrovich; SUVORINA, T.M., red.; NEUDAKINA, N.G.,
tekhn.red.

[Western Urals on the 40th anniversary of the Great October Revolution]
Zapadnyi Ural k 40-i godovshchine Velikogo Oktiabria. Perm',
Permskoe kn-vo, 1957. 116 p. (MIRA 11:4)
(Ural Mountain region)

KAMASHEV, I.K.; FILICHKIN, G.L.; BEDERSON, A.M., red.; SUVORINA,
T.M., red.; NEUDAKINA, N.G., tekhn. red.

[Economics of the lumbering industry] Voprosy ekonomiki
lesnoi promyshlennosti; sbornik statei. Perm', Permskoe
knizhnoe izd-vo, 1959. 176 p. (MIRA 16:10)

(Perm Province--Lumbering)
(Perm Province--Wood\ using industries)

DEDOV, Gavriil Ivanovich; SUVORINA, T.M., red.; NEUDAKINA, N.G.,
tekhn.red.

[Kizel coal basin during the Great Patriotic War] Kizelovskii
ugol'nyi bassein v gody Velikoi Otechestvennoi voiny. Perm',
Permskoe knizhnoe izd-vo, 1959. 210 p. (MIRA 13:11)
(Kizel Basin--Coal mines and mining)

SHILOV, Yuriy Georgiyevich; SAL'NICHENKO, M.A., metodist, red.; SUVORINA,
T.M., red.; SUKMANOVA, K.G., tekhn. red.

[Toward a single-type communist property] K edinoy kommunistiches-
skoi sobstvennosti. Perm' Permskoe knizhnoe izd-vo, 1960. 29 p.
(MIRA 14:12)

1. Dom politicheskogo prosveshcheniya pri Permskom oblastnom komi-
tete Kommunisticheskoy partii Sovetskogo Soyuza (for Sal'nichenko).
(Collective farms) (Socialist property)

KHUSAINOV, Galishan Zaydulloovich; SUVORINA, T.M., red.; SYCHKIN, A.M.,
tekh. red.

[Striving for an abundance of meat] V bor'be za izobilie miasa.
Perm', Permskoe knizhnoe izd-vo, 1960. 30 p. (MIRA 14:12)

1. Sekretar' partiynogo komiteta kolkhoza imeni V.I.Lenina Bardym-
skogo rayona (for Khusainov). (Meat)

TARASOVA, V.P.; DROZDOV, V.T.; KONDAKOV, V.V., kand.ekonom.nauk;
SUVORINA, T.M., red.; FILIPPOVA, K.G., tekhn.red.

[Economic problems of technological progress; based on industrial materials of Perm Province] Ekonomicheskie problemy tekhnicheskogo progressa; po materialam promyshlennosti Permskoi oblasti. Sbornik statei. Perm', Permskoe knizhnoe izd-vo, 1960. 262 p.

(MIRA 14:1)

(Perm Province--Technology)

ACC NR:	AM6004770	Monograph	UR/
<p>Ogibalov, Petr Matveyevish; Suvorina, Yuliya Vasil'yevna</p> <p>Mechanics of reinforced plastics (Mekhanika armirovannykh plastikov) [Moscow], Izd-vo Mosk. univ., 1965. 479 p. illus., biblio., col. plate, index. 2,500 copies printed</p>			
<p>TOPIC TAGS: reinforced plastic, plastic strength, plastic industry, mechanical stress, polymer structure</p> <p>PURPOSE AND COVERAGE: The book deals with an investigation, from a unified physical and mathematical point of view of the main problems of mechanics of polymers, principally reinforced ones. It presents an up to date picture of the characteristic features of the physical and chemical structure and mechanical behavior of polymers, and contains a large amount of factual materials on many plastics. Theoretical problems of the mechanics of homogeneous and heterogenous polymers are discussed systematically in appreciable depth. These include theory of deformations and stresses, principles of general mathematical theory of the universal relations between stresses, strains, time, and temperature. Other phenomenological theories are also discusses. One-dimensional and two-dimensional problems in the mechanics of reinforced problems are solved, with allowance for the variable character of their mechanical properties in time and under static and dynamic loads. The book is intended for engineers, scientific workers, graduate students, and all students interested in problems of strength and rigidity of polymer materials, products, and structures made from them; it can serve as a textbook on the mechanics of polymers in the universities and higher institutions of learning. Authors thank Doctor of Technical Sciences Professor N. I. Bezukhov, Doctor of Physical and Mathematical Sciences Professor A. M. Zhukov, and</p>			
Card 1/2		UDC: 678.029.46.01:53	

SUVORKIN, D. G.

SUVORKIN, D. G. -- "Investigating the Effect of Tension on the Fittings and the Type of Concrete on the Operation of Reinforced Concrete Beams with Granite and Porous Galy Fillers." Min Higher Education USSR. Moscow Automobilw and Road Inst imeni V. M. Molotov. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Science).

So.: Knizhanay Letopis', No. 2, 1956.

IVANOV-DYATLOV, I.G., prof., doktor tekhn.nauk; SUVORKIN, D.G., kand.
tekhn.nauk

Using expanded clay-filler concrete in highway bridge construction.
Avt.dor. 20 no.12:12-15 D '57. (MIRA 12:4)
(Bridges, Concrete)

IVANOV-DYATLOV, I., prof. doktor tekhn.nauk; SUVORXIN, D., kand.tekhn.nauk
SHCHERKOWENKO, R., inzh.

Using expanded clay filler in large-panel housing construction.
Na stroi. Mosk. 1 no.4:2-5 Ap '58. (MIRA 11:9)
(Moscow--Apartment houses) (Building materials)

LEVANOV, Nikolay Mikhaylovich, prof., doktor tekhn. nauk;
SIVOKIN, Dmitriy Grigor'yevich, dots., kand. tekhn.
nauk; KUZNETSOV, G.I., prof., doktor tekhn. nauk;
GVOZDEV, A.A., prof., doktor tekhn. nauk

[Reinforced concrete elements] Zhelezobetonnye kon-
struktsii. Moskva, Vysshaya shkola, 1965. 871 p.
(MIRA 18:10)

MOREV, N.Ye.; MOLODYKH, V.N.; ITSKOVICH, Ya.S.; SUVORKIN, G.V.

Mechanized production line with a 2 to 3 ton per day capacity for
the manufacture of fancy rusks. Trudy TSNIIKHP no.10:5-20 '62.
(MIRA 18:2)

KULIKOVA, Ye.N.; VAYMAN, Ye.I.; KUZ'MINA, Yu.T.; BLINOVA, L.L.;
SUVORKOVA, A.D.

Use of accelerated methods for the laboratory diagnosis of
dysentery; phase titer growth reaction and fluorescent antibody
method. Zhur. mikrobiol., epid. i immun. 40 no.6:131 Je '63.
(MIRA 17:6)

1. Iz Kazanskogo instituta epidemiologii, mikrobiologii i
gigiyeny polikliniki No.2, Kazani.

LEONT'YEV, L.A.; SUVORKINA, A.F.

Automation of the control and regulation of brewing processes in
the cooking shops of the Ostrankino Brewery. Trudy TSentr.nauch.-
issl.inst.piv., bezalk.i vin.prom.no.11:126-132 '63. (MIRA 17:9)

DRUZHININA, Ye.N.; SUVORKINA, D.V.

Agar diffusion method for the determination of small concentrations of streptomycin and dihydrostreptomycin. Antibiotiki
7 no.9:825-828 S '62. (MIRA 15:12)

1. Laboratoriya mikrobiologicheskikh metodov kontrolya (zav.-
A.Ye.Tebyakina) Vsesoyuznogo nauchno-issledovatel'skogo instituta
antibiotikov.

(STREPTOMYCIN)(ANTIGENS AND ANTIBODIES--ANALYSIS)

TEBYAKHINA, A.I.; DRYUBININA, Ye.N.; SUVCHENINA, P.V.

Determination of the biological activity of tetracycline and
oleandomycin in the preparations of sigmarycin. Antibiotiki
8 no. 11:1052-1055 N '63. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

~~SECRETED~~ PLAKSIN, I.N.; OKOLOVICH, A.M.; SUVORODSKAYA, N.A.; SHIKHOVA, V.V.

Xanthogenate behavior in aqueous solutions. Trudy Inst. gor. dela
4:234-240 '57. (MLBA 10:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Plaksin).
(Xanthic acids)

LISTOPAD, G. (Velikiy Ustyug, Vologodskaya obl.); KOMAROV, V.
(Novgorodskaya obl.); FEDOROVYKH, I. (Toguchinskiy rayon,
Novosibirskaya obl.); SUVOROV, A. (Omsk); TROSHKOV, D.
(Permskaya obl.); ZAGOROVSKIY, L.; GLOBUSOV (Sverdlovskaya obl.)

1. Readers' letters. Pozh.delo 8 no.12:31 D '62. (MIRA 16:1)
(Fire prevention)

SUVOROV, A. A.

NIKITIN, M. V. and SUVOROV, A. A., A Course in Oceanography. Navy Institute Publishing House of NKVMF (People's Commissariat of the Internal Merchant Fleet) USSR, Moscow-Leningrad: 1945, 460 pp.
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

PODURAYEV, V.N.; SUVOROV, A.A.

Cutting threads with taps in heat-resistant steels in the presence of ultrasonic oscillations. Stan. 1 instr. 36 no.2:23-25
F '65. (MIRA 18:3)

AUTHORS:

3043
S/122/62/000/001/004/C05
D221/D304
Satel', E.A., Honored Scientist and Technician, Doctor
of Technical Sciences, Professor, Podurayev, V.N.,
Candidate of Technical Sciences, Docent, Tuktanov, A.G.,
and Suvorov, A.A., Engineers

TITLE:

Vibratory drilling of holes in stainless and heat
resisting steels

PERIODICAL: Vestnik mashinostroyeniya, no. 1, 1962, 67-70

TEXT: The MVTU imeni Bauman (MVTU im. Bauman) carried out research
on vibratory drilling, where the tool receives axial oscillations. This
produces small chips which are easily removed so that mechanized feed
and automation of the process become feasible. The special vibratory
drilling machine increased the efficiency by 2.5 times and prolonged
the tool life 3 times when machining nuts in 1X18H9T (1Kh18N9T) steel.
The sinusoidal axial oscillations of the drill with an amplitude a and
frequency ω distort the usual helical motion of the cutting edge of the

Card 1/4

31437

S/122/62/000/001/004/005
D221/D304

Vibratory drilling ...

tool. The equations of motion of the latter in cylindrical coordinates are $r = \frac{d}{2}$; $\varphi = \omega_n t$; $X_A = v_s t + a \sin \omega_f t$. After some manipulations, is obtained which gives the current feed s_t . Analysis

Eq. (4)

$$s_t = X_B - X_A = \frac{s_0}{2} + 2a \cos \frac{\omega_f}{\omega_n} \left(\varphi + \frac{\pi}{2} \right) \sin \frac{\omega_f}{\omega_n} \cdot \frac{\pi}{2}. \quad (4)$$

of the vibratory drilling has revealed that for a given amplitude the fractioning of the chips is best, when there is a certain ratio between the number of revolutions of the tool and the frequency of vibrations. Similar results are obtained during drilling, characterized by two simultaneously oscillating cutting edges. If during a half-turn of the drill there are k full periods of oscillations and a remaining part of a period l , Eq. (7)

$$s_t = \frac{s_0}{2} + 2a \cos 2 \left(k + l \right) \left(\varphi + \frac{\pi}{2} \right) \times \sin 2 \left(k + l \right) \frac{\pi}{2}. \quad (7)$$

In the experiments, the frequency was 200 cycles, $n=2800$ rpm; the chip

Card 2/4

31437

S/122/62/000/001/004/005
D221/D304

Vibratory drilling ...

was broken into about four parts during one revolution of the drill. Motion of the chip in the grooves of the drill is facilitated by reduction of the friction coefficient due to the mechanics of displacement of granulated bodies on vibrating surfaces. The second factor which increases the efficiency, is due to the kinematics of the process of cutting. If the radius of curvature of the cutting edge is commensurate with the thickness of the chip (which is the case in drilling holes of small diameter) there is an intense work hardening of metal. Measurement of torque and axial forces revealed a reduction of the cutting force P_z

when the feed increased up to a certain value; further increase of the feed leads to larger forces. The third factor is due to changes in the physical process of plastic deformation caused by a variable load. The speed of the drill is composed of rotational and feed components that are constant, and a superimposed oscillatory part. This results in slight alteration of the machining speed, as well as in marked changes of the cutting angles. Deformation of the metal is then changed, and the chip becomes fractured. This is especially important for stainless and heat resisting steels which are more susceptible to work hardening.

Card 3/4

31437

S/122/62/000/001/004/005
D221/D304

Vibratory drilling ...

On the basis of accumulated experience, the MVTU im. Bauman has designed a drill with an electromagnetic vibrator for nut machining, and a two-spindle unit made in cooperation with Izhevskiy mashinostroitel'nyy zavod (Izhevsk Engineering Plant). The system used allows a simultaneous axial vibration of the drill. An eccentricity permits alignment of spindle within 0.01 mm. The required oscillations are produced by an electrodynamic vibrator, whose coil is fed by a frequency changer, and controlled by a rheostat. A description is given of the machine operation. The MVTU im. Bauman has also developed a semi-automatic two-spindle unit with stepless regulation of speed. A mention is made of a drill made by MVTU im. Bauman in collaboration with Izhevsk Engineering plant for vibratory drilling of holes of 5-8 mm dia., with an electro-hydraulic vibrator. Its tests proved to be satisfactory. There are 4 figures and 5 Soviet-bloc references.

Card 4/4

L 39321-65 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/
EWA(h) Pf-4/Peb JD
ACCESSION NR: AP5007720
S/0121/65/000/002/0023/0025

AUTHORS: Podurayev, V. N.; Suvorov, A. A.

TITLE: Thread cutting with taps in heat resisting steels by means of ultrasonic vibration

SOURCE: Stanki i instrument, no. 2, 1965, 23-25

TOPIC TAGS: machine tool industry, machine shop practice, transformer, vibrator/
UZG 6.3 generator, 2B118 machine

ABSTRACT: A device and technology for cutting threads in heat-resistant steels by means of ultrasonic vibrations are described. Figure 1 on the Enclosure is a sectional view of the cutting device. The apparatus is mounted upon a vertical boring stand (model 2B118) with certain modifications. In Fig. 1, 2 is the frame fastened to the stand, 4 is an elastic vibration transformer and a magnetostrictive transformer fastened to the frame, machine nut 1 fixes the removable part of the transformer. A UZG-6.3 generator supplies power to the magnetostrictive transformer. Water at a pressure of 1.5-2.0 atm flows through the frame to provide cooling. The width and thickness of the thread cuts are related to the vibration frequency by the equations $a_z = a'_z + a''_z \sin \omega t$, where a'_z and b'_z are the

$$b_z = b'_z - b''_z \sin \omega t,$$

Card 1/5

L 39321-65
ACCESSION NR: AF5007720

thickness and width due to vibrational motion, t - time, and ω - vibration frequency. A complete development of the geometric cutting parameters is given and includes equations for vibration speed and for kinematic angle settings for forward and reverse cuts. The method described yielded cleaner thread cuts than conventional methods. (orig. art. has: 5 figures and 10 equations.

ASSOCIATION: none

SUBMITTED: 00

INCL: 01

SUB CODE: MM, IE

NO REF SOV: 006

OTHER: 000

Card 2/3

PODURAYEV, V.N., kand.tekhn.nauk; SUVOROV, A.A., inzh.; YAROSLAVTSEV, V.M.,
inzh.

Using vibratory and percussion-pulse techniques for cutting
threads in stainless and heat-resistant steels. Vest.mashinostr.
45 no.10:63-66 0 '65. (MIRA 18:11)

L 20740-66 EWP(k)/EWI(d)/EWI(m)/EWA(d)/EWP(l)/EWP(v)/EWP(t)/EWP(h) MJW/JD
ACC NR: AP6005563 SOURCE CODE: UR/0122/65/000/010/0063/0066

AUTHORS: Podurayev, V. N. (Candidate of technical sciences); Suvorov, A. A. (Engineer); Yaroslavtsev, V. M. (Engineer)

ORG: none

TITLE: Machining of threads in stainless and heat resistant steels by vibrational and impact-impulse methods

SOURCE: Vestnik mashinostroyeniya, no. 10, 1965, 63-66
steel,

TOPIC TAGS: threading machine, metalworking, metalworking machinery/ LKhl2N8G8MFB steel, R18F2M threading machine

ABSTRACT: To improve thread cutting in stainless and heat resistant steels, vibrational and impact-impulse thread cutting tools have been developed at MVTU imeni Baumann. The operation of an electrohydraulic rotational vibrator (A. A. Suvorov and V. I. Iudin. Gidravlicheskiye ustroystvo dlya slozhnogo dvizheniya. Byulleten' izobreteniy, 1961, No. 22) is discussed, and experimental results for cutting M8 x 1.25 nuts out of LKhl2N8G8MFB steel, using a R18F2M tool under

Card 1/3

UDC: 621.99:621.9.048.6

L 20780-66

ACC NR: AP6005563

various operating conditions, are graphically presented. A simpler impact-impulse device which generates two impacts per revolution was also developed and is shown in Figures 1 and 2. The operation of this device is discussed in detail, and

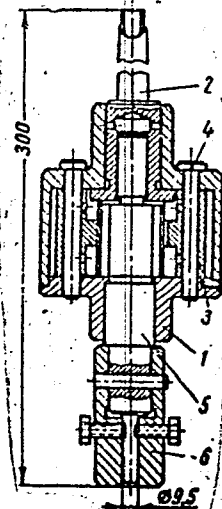


Fig. 1. Impact tool: 1 - body; 2 - shank; 3 - hammer; 4 - pin; 5 - driven shaft; 6 - tool holder.

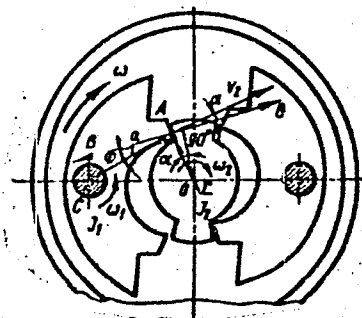


Fig. 2. Section of impact tool: A - impact point.

Card 2/3

L 20780-66

ACC NR: AP6005563

6 16
operating equations are derived. Tests performed on 4 types of steel (1Kh18N9T, 2Kh13, 38Kh, and EI654) indicate that, under correct operating conditions, tool life is increased 3-3.5 times using the impact thread cutting method. Engineer N. M. Demin participated in the experiments. Orig. art. has: 7 figures, 2 tables, and 16 formulas.

SUB CODE: 13/

SUM DATE: none/

ORIG REF: 001

Card 3/3

L 17586-63

EWP(q)/EWT(m)/BDS AFFTC/ASD JD/KJ/DM

ACCESSION NR: AP3005223

62 S/0089/63/015/002/0146/0151

AUTHORS: Parlag, A. M.; Suvorov, A. D.; Shkoda-U'lyanov, V. A.; Shabalina, L. A.

TITLE: Computation of photoneutron yield from mixtures of SiO sub 2 with small amounts of beryllium, water, lithium, carbon, uranium and thorium

SOURCE: Atomnaya energiya, v. 15, no. 2, 1963, 146-151

TOPIC TAGS: SiO sub 2, photoneutron yield, photoneutron, beryllium, water, lithium, carbon, uranium, thorium

ABSTRACT: The avalanche theory of Belenkiy and Tamm (see the article by S. Z. Belenkiy and I. P. Ivanenko, Uspekhi fiz. nauk, 19, 1959, 632) is applied for the computations of the yield curves for the photoneutrons from mixtures described in the title. The computation was made for irradiation by both electrons and neutrons. The results are given in 5 tables for mixtures of several elements, and in 2 figures for mixtures of sand with 1% of only one element. The photoneutron method might find an application in the analysis of lithium, uranium, and thorium in ores. Orig. art. has: 2 figures and 5 tables.

ASSOCIATION: none

Card 1/2/

SUVOROV, A.D.

Using X-ray emulsion for counting alpha-particles. Vop.rud.geofiz.
no.4:109-120 '64. (MIRA 18*1)

a L 10291-66 EWP(k)✓
 ACC NR: AT5028828 EWT(m)/EWP(v)/T/EWP(t)/EWP(b)/EWA(c) JD/HM
 SOURCE CODE: UR/2982/65/000/054/0168/0174
 AUTHORS: Taran, V. D.; Suverov, A. F.
 44.55 44.55
 ORG: Moscow Institute of Petrochemical and Gas Industry (Moskovskiy institut
 neftekhimicheskoy i gazovoy promyshlennosti) 44.55
 TITLE: Electric arc heating of pipe joints for compression welding on the pipe
 line site 44.55, 6
 SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti. Trudy, no.
 54. 1965. Oborudovaniye neftegazovoy i neftekhimicheskoy promyshlennosti
 (Equipment of the Petroleum-gas and petroleum-chemical industry), 168-174
 TOPIC TAGS: welding, butt welding, arc welding, welder, pressure welding,
 induction welding
 ABSTRACT: A device for electric arc heating of pipe joints for compression
 welding in the field, as developed by the Kafedra sooruzheniya gazonefteprovodov i
 khranilishch v MINKh i GP (Department of Construction of Gas-Oil-Pipelines and
 Storage Facilities in MINKh and GP) is described (see Fig. 1). The operation of
 Card1/3

L 10291-66

ACC NR: AT5028828

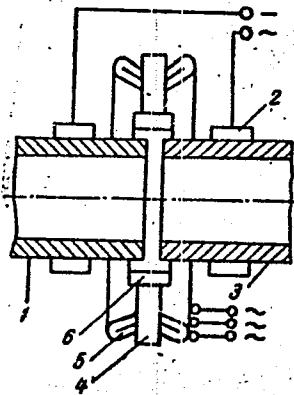


Fig. 1. Schematic of the device for welding of pipes by a rotating arc, displaced by a traveling magnetic field. 1 and 3 - pipe; 2 - welding-jolt-ramming mechanism; 4 - core; 5 - inductor windings; 6 - ring of heat-resistant material for protection of inductor.

the device is based on the phase resonance between the arc-plasma particles and a traveling electromagnetic wave, as described by D. A. Frank-Kamenetskiy (Plazma-chetvertoye sostoyaniye veshchestva. Gosatomizdat, 1963). The characteristics of the arc and current sources, the heating of pipe edges, and energy consumption were investigated. The experimental results are presented graphically on Fig. 2. It is concluded that heating of pipes and similar objects is possible with current sources with proper characteristics, that the arc supply voltage must exceed the

Card 2/3

L 10291-66

ACC NR: AT5028828

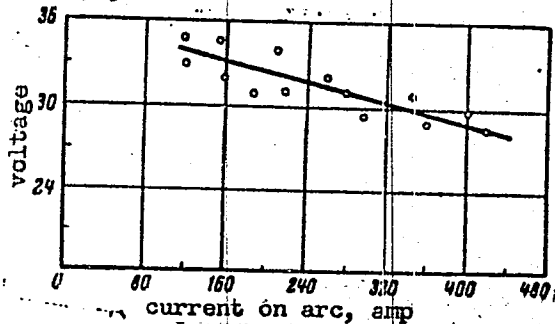


Fig. 2. Static characteristic of the arc rotated by a travelling magnetic field.

arc voltage by at least a factor of two, that the dynamic properties of the arc supply must be higher than those used in arc welding equipment, and that the magnetic arc control requires d-c or a-c supplies of relatively low capacity. Orig. art. has: 4 graphs.

SUB CODE: 13/

SUBM DATE: none/

ORIG REF: 002

Card 3/3

TARAN, V.D.; SUVOROV, A.F.

Heating pipe seams by magnet controlled arc discharge for
extrusion welding. Izv. vys. ucheb. zav.; neft' i gaz 7
no.10:113-116 '64. (MIRA 18:2)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad. I.M. Gubkina.

SUVOROV, A.G.

New equipment and advanced technology in the "Krasnyi Treugol'nik"
Plant. Kauch.1 rez.no.1:43-44 Ja '57. (MLRA 10:4)
(Rubber industry)

~~SUVOROV, A.G.~~

Production and technical conference at the Leningrad "Krasnyi
treugol'nik" Plant. Kauch. i rez. 17 no. 3:31-33 Mr '58. (MIRA 11:6)

1. Leningradskiy zavod "Krasnyy treugol'nik."
(Rubber industry--Congresses)

S. H. K. R. V. A. G.

50V/138-59-3-15/16

AUTHOR: Khabarov, V.P.

TITLE: Industrial and Technical Conference in the Factory "Krasnyy Treugol'nik" (Proizvodstvenno-tekhnicheskaya konferentsiya na zavode "Krasnyy treugol'nik")

PERIODICAL: Kauchuk i Rezina. 1957. № 3, pp 61 - 62 (USSR)

[illegible]

Card 1/3

Agency), Council of the USSR, Gosstatizvestiya Institute (Preparativnaya predpriyatiya tekhnologii puznykhlenosti) (Preparative enterprises for planning in the rubber industry), Leningradskiy inzhenerno-ekonomicheskii institut (Leningrad Engineering-Economical Institute) and Vsesoyuznaya tekhnicheskaya shkola (All Union School of Trade). The following papers were read by the Chief Engineer of the factory "Kavkazskiy Trugolovnik" A. G. Zhukovskiy on the Results of Fulfilling the Resolutions of the 1959-60 Technical and Technical Conference and problems of development of the Factory during the Period 1959 to 1959. The lecture pointed out that during 1959 the plant had started solving the vulcanizing apparatus AGV-6T, and that considerable mode making of the plant had been carried out during the same year. Further mechanization was to be introduced during 1959. 2) The chief of the Technical Laboratory for Rubber Footwear of the Research Institute for Rubber and Latex Articles, A. I. Pavlov, Candidate of Technical Sciences, on Methods of Mechanizing and Modernizing the Rubber Footwear Industry. 3) The head of a department

Card 2/3

[illegible]

Card 3/3

FEDOTENOK, A.A., kandidat tekhnicheskikh nauk, dotsent; IGNAT'YEV, N.V.,
kandidat tekhnicheskikh nauk, dotsent; SUVOROV, A.I., kandidat
tekhnicheskikh nauk, dotsent.

New method of grinding internal-toothed cylindrical wheels.
Issl. v obl. metalloresh.stan. no.3:179-186 '55. (MLRA 10:2)

(Gear cutting)

ANDON'YEV, S.M.; ZHLOBINSKIY, Ye.I.; YUR'YEV, M.A.; STRUGATSKIY, L.F.;
YELISEYEV, B.V.; TSELUYKO, Yu.I.; SUVOROV, A.I.; FILIP'YEV, O.V.;
KALASHNIKOV, P.A.; L'VOV, V.N.; SULOYEV, V.A.

Evaporation cooling of rolling-mill heating furnaces in open-hearth-
furnace plants and complex utilization of secondary power resources.
Prom. energ. 14 no.1:37-39 Ja '59. (MIRA 12:1)
(Furnaces, Heating) (Boilers)

SOV/115-59 -2-9/38

9(6)
AUTHOR:

Suvorov, A.I.

TITLE:

The Influence of Rounded Scale-Beam Prism Points on the Sensitivity of the Scales (Vliyaniye zakrugleniya ostriy prizm koromysla na chuvstvitel'nost' vesov)

PERIODICAL:

Izmeritel'naya tekhnika, 1959,
(USSR)

Nr 2, pp 18-19

ABSTRACT:

The author states that prism edges are not mathematical lines with only one measurement - length, but rather a cylindrical surface with small diameter. Consequently, during the oscillatory positions of the beam, the points of contact of prism edge with bolster are not constant. As a result, the radius of the support prism - which carries the heaviest load - has the greatest influence on the scales' sensitivity, and becomes blunted more than any others. The author illustrates his thesis with the example of an analytical scale with a carrying capacity of up to 200 gr., and shows via calculation how, when determining the sensitivity of the scale, ignorance

Card 1/2

The Influence of Rounded Scale Beam Prism Points on the Sensitivity
of the Scales

SOV/115-59-2-9/38

of the radial influence of the prism can lead to errors of a 20-25% magnitude. The author concludes by pointing to the need for further theoretical and empirical studies of scales. There are 12 formulae and 2 diagrams.

Card 2/2

SOV/115-59-6-31/33

28(2)

AUTHOR: Suvorov, A.I.

TITLE: The Presentation of Results of the State Inspection of Measures and Measuring Instruments

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 6, p 73 (USSR)

ABSTRACT: Having passed routine inspections, measuring instruments are marked with a metal punch which, in many cases, leads to a deformation of some sections of the instrument. For eliminating the outdated punch method, the author suggests the application of the check stamp by chemical means, by special paint, or adhesive coatings. He emphasizes the necessity of using such stamps on glass surfaces for replacing the hydrofluoric ammonium which is harmful to the health of workers handling this material. For a great number of measures and instruments having a wide-spread application detailed test certificates are issued after routine inspections, requiring a considerable amount of paper work. The author suggests reducing this paper work by developing a small-size inspection certificate which contain only the necessary details.

Card 1/1